1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Turner Building Science, LLC

C/O: Mr. William Turner Re: 50588

Date of Sampling: 11-16-2005 Date of Receipt: 11-18-2005 Date of Report: 11-22-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-01: 0349924, de roof	S/N 10	T-02: 0349890, flr E-7	S/N 10	Γ-03:)349904, flr G-6	S/N 10	Γ-04:)349917, flr C-5	
Comments (see below)	Outsi	A		lone		lone		Vone	
Lab ID-Version‡:	812	2674-1	812	675-1	812	812676-1		812677-1	
	raw ct.	spores/m3							
Alternaria	2	13							
Arthrinium									
Ascospores*	12	80							
Aureobasidium									
Basidiospores*	88	587			1	7	1	7	
Bipolaris/Drechslera group									
Botrytis									
Cercospora	1	7							
Chaetomium									
Cladosporium	38	253							
Curvularia									
Epicoccum									
Fusarium									
Myrothecium									
Nigrospora									
Other brown	1	7							
Other colorless									
Penicillium/Aspergillus types†	4	27					1	7	
Pithomyces									
Rusts*									
Smuts*, Periconia, Myxomycetes*	3	20							
Stachybotrys									
Stemphylium									
Torula									
Ulocladium									
Unknown									
Zygomycetes									
Background debris (1-4+)††	2+		2+		2+		1+		
Sample volume (liters)	150		150		150		150		
TOTAL SPORES/M3		994		< 7		7		14	

Comments: A) 10 of the raw count Cladosporium spores were present as a single clump.

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

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Date of Sampling: 11-16-2005 Date of Receipt: 11-18-2005 Date of Report: 11-22-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-05:)349922. flr B-4	S/N 10	Γ-06: 0351634, flr D-2	S/N 10	Γ-07:)349916, flr E-4	S/N 10	Γ-08: 0349891, de roof
Comments (see below)	N	lone	N	lone	N	Vone		В
Lab ID-Version‡:	812	2678-1	812	2679-1	812	2680-1	812681-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria							2	13
Arthrinium								
Ascospores*							17	113
Aureobasidium								
Basidiospores*							96	640
Bipolaris/Drechslera group								
Botrytis								
Cercospora								
Chaetomium								
Cladosporium							35	233
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	4	27	4	27			4	27
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*			1	7				
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		27		34		< 7		1,026

Comments:B) 19 of the raw count *Cladosporium* spores were present as a single clump.

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

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Date of Sampling: 11-16-2005 Date of Receipt: 11-18-2005 Date of Report: 11-22-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-09:)349918, flr E-7	S/N10	Γ-10: 349925, flr G-6	S/N 10	Γ-11:)349912, flr C-5	S/N 10	Γ-12:)349894, flr B-4
Comments (see below)		III E-/		lir G-6 lone		Vone		III B-4 Jone
` ´								
Lab ID-Version‡:	812	2682-1	812	2683-1	812	2684-1	812685-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*			1	7				
Bipolaris/Drechslera group								
Botrytis								
Cercospora								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†							4	27
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	1	7						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		< 1+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		7		7		< 7		27

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

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Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10 10th	Γ-13:)349893, flr D-2	S/N 10 6th	Γ-14:)349915, flr E-4	S/N 10 18th	Г-15:)349908, flr E-7	S/N 10 17th	Г-16:)349889, flr G-6
Comments (see below)	N	Vone	N	Vone	N	lone	N	Vone
Lab ID-Version‡:	812	2686-1	812	2687-1	812	2688-1	812689-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*							1	7
Aureobasidium								
Basidiospores*	4	27	4	27				
Bipolaris/Drechslera group								
Botrytis								
Cercospora								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†							4	27
Pithomyces			1	7				
Rusts*								
Smuts*, Periconia, Myxomycetes*							1	7
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		27	<u> </u>	34	<u> </u>	< 7		41

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

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Turner Date of Receipt: 11-18-2005 Date of Report: 11-22-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-17:)349892, flr C-5	S/N 10	Γ-18:)349906, flr B-4	S/N 10	Γ-19:)349897, flr D-2	S/N 10	Γ-20:)349911, flr E-4
Comments (see below)		lone		Vone		lone		Vone
Lab ID-Version‡:	812	2690-1	812	2691-1	812	2692-1	812693-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria		1		1		1		1
Arthrinium								
Ascospores*							1	7
Aureobasidium								,
Basidiospores*			4	27				
Bipolaris/Drechslera group			<u> </u>	_,				
Botrytis								
Cercospora								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			4	27	4	27		
Pithomyces								
Rusts*							1	7
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		< 7		54		27		14

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

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Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldRANGETM: Extended Outdoor Comparison Outdoor Location: ST-01, S/N 10349924, outside roof

Fungi Identified	Outdoor	Typic	al Outdoo	or Data by	Date†	Typical Outdoor Data by Location:			
	data	Month: November				State: CT			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	27	280	54	12	27	230	38
Bipolaris/Drechslera group	-	7	13	200	18	_	-	-	13
Chaetomium	-	7	13	160	11	_	-	-	3
Cladosporium	253	53	750	12,000	97	16	590	13,000	87
Curvularia	-	7	27	940	18	13	27	3,800	21
Nigrospora	-	7	13	210	17	_	-	-	15
Other brown	7	7	13	130	38	13	13	41	34
Penicillium/Aspergillus types	27	40	300	3,800	93	20	210	5,500	90
Stachybotrys	-	7	13	370	3	_	-	-	< 1
Torula	-	7	13	120	8	-	-	-	7
Seldom found growing indoors**									
Ascospores	80	13	160	2,400	76	31	640	4,900	79
Basidiospores	587	27	570	17,000	96	13	2,100	29,000	92
Cercospora	7	7	27	220	6	_	-	-	12
Rusts	-	7	13	250	22	13	27	230	21
Smuts, Periconia, Myxomycetes	20	7	40	680	71	13	53	1,100	61
TOTAL SPORES/M3	994								

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Environmental Microbiology Laboratory, Inc. may not have received and tested a representative number of samples for every region or time period. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

^{*}The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. Cladosporium is one of the predominant spore types worldwide and is frequently present in high numbers. Penicillium/Aspergillus species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**}These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Date of Receipt: 11-18-2005 Date of Report: 11-22-2005

Date of Sampling: 11-16-2005

MoldRANGE™: Extended Outdoor Comparison Outdoor Location: ST-08, S/N 10349891, outside roof

Fungi Identified	Outdoor	Typic	al Outdoo	or Data by	Date†	Typical	Typical Outdoor Data by Location:			
	data		Month: November				State: CT			
	spores/m3	low	med	high	freq %	low	med	high	freq %	
Generally able to grow indoors*										
Alternaria	13	7	27	280	54	12	27	230	38	
Bipolaris/Drechslera group	-	7	13	200	18	_	-	-	13	
Chaetomium	-	7	13	160	11	_	-	-	3	
Cladosporium	233	53	750	12,000	97	16	590	13,000	87	
Curvularia	-	7	27	940	18	13	27	3,800	21	
Nigrospora	-	7	13	210	17	_	-	-	15	
Other brown	-	7	13	130	38	13	13	41	34	
Penicillium/Aspergillus types	27	40	300	3,800	93	20	210	5,500	90	
Stachybotrys	-	7	13	370	3	_	-	-	< 1	
Torula	-	7	13	120	8	_	-	-	7	
Seldom found growing indoors**										
Ascospores	113	13	160	2,400	76	31	640	4,900	79	
Basidiospores	640	27	570	17,000	96	13	2,100	29,000	92	
Cercospora	-	7	27	220	6	_	-	-	12	
Rusts	-	7	13	250	22	13	27	230	21	
Smuts, Periconia, Myxomycetes	-	7	40	680	71	13	53	1,100	61	
TOTAL SPORES/M3	1,026									

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Environmental Microbiology Laboratory, Inc. may not have received and tested a representative number of samples for every region or time period. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

^{*}The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**}These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Date of Sampling: 11-16-2005

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Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: ST-01: S/N 10349924, outside roof

Species detected		Outdoor sample spores/m3			3	Typical	outdo	or ranges	Freq.
	<100	1K	10K	>100K		(Nor	th An	nerica)	%
Alternaria					13	7 -	27	- 320	56
Ascospores					80	13 -	160	- 3,600	77
Basidiospores					587	22 -	360	- 13,000	94
Cercospora					7	7 -	26	- 400	6
Cladosporium					253	53 -	590	- 8,100	96
Other brown					7	7 -	13	- 93	39
Penicillium/Aspergillus types					27	34 -	210	- 2,800	90
Smuts, Periconia, Myxomycetes					20	7 -	40	- 770	70
Total					994				

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: ST-02: S/N 10349890, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species	Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-03: S/N 10349904, 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearma correlat (indoor/o	ion***	MoldSCOR (indoor/out	
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: ().2222	dF: Result: (Critical valu Outside Sir	0.6726 ae: 0.6190	Score: 10 Result: Lo	
Species	Detected			Spore	s/m3		
		<100	1K		10K	>100K	
	Basidiospores						7
	Total						7

Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-04: S/N 10349917, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Resu	ılt: 0.4000	dF: 8 Result: 0.6012 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Basidiospores				7
Penici	illium/Aspergillus types				7
	Total				14

Location: ST-05: S/N 10349922. 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		ent ratio** :/outdoor)	correla	an rank tion*** outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Resul	t: 0.2222	Result: Critical va	7: 8 0.3869 lue: 0.6190 imilar: No	Score: 104 Result: Low
Species 1	Detected			Spor	es/m3	
		<100	1K		10K	>100K
Penici	llium/Aspergillus types					27
	Total					27

Location: ST-06: S/N 10351634, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio (indoor/outdoor		MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.2262 Critical value: 0.6190 Outside Similar: No	Score: 104 Result: Low	
Species	Detected		Spores/m3		
		<100	K 10K	>100K	
Penici	illium/Aspergillus types			27	
Smuts, P	Periconia, Myxomycetes			7	
	Total			34	

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Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-07: S/N 10349916, 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species	Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-09: S/N 10349918, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		ent ratio** r/outdoor)	correla	an rank tion*** outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2222		dF: 8 Result: 0.2917 Critical value: 0.6190 Outside Similar: No		Score: 101 Result: Low
Species 1	Detected			Spor	es/m3	
		<100	1K		10K	>100K
Smuts, P	ericonia, Myxomycetes					7
	Total					7

Location: ST-10: S/N10349925, 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)			nt ratio** outdoor)	cori	rman rank celation*** or/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2222		Critica	dF: 8 sult: 0.6726 al value: 0.6190 de Similar: Yes	Score: 101 Result: Low	
Species	Detected				Sı	pores/m3	
		<100		1K		10K	>100K
	Basidiospores						7
	Total						7

Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-11: S/N 10349912, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species	Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-12: S/N 10349894. 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)	
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2222		dF: 8 Result: 0.3869 Critical value: 0.6190 Outside Similar: No		Score: 10 Result: Lo	
Species	Detected			Spor	res/m3		
		<100	1K		10K	>100K	
Penici	llium/Aspergillus types						27
	Total						27

Location: ST-13: S/N 10349893, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		ement ratio** oor/outdoor)	correl	nan rank ation*** r/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2222		dF: 8 Result: 0.6726 Critical value: 0.6190 Outside Similar: Yes		Score: 102 Result: Low
Species	Detected			Spo	res/m3	
		<100	1K		10K	>100K
	Basidiospores					27
	Total					27

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Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-14: S/N 10349915, 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		eement ratio** loor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	R	Result: 0.2000	dF: 9 Result: 0.3042 Critical value: 0.5833 Outside Similar: No	Score: 103 Result: Low
Species	Detected	<100	1K	Spores/m3	>100K
	Basidiospores				27
	Pithomyces				7
	Total				34

Location: ST-15: S/N 10349908, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected			Spores/m3	
		<100 1K	10K	>100K
None Detected				N/A

Location: ST-16: S/N 10349889, 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 4%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.5455		dF: 8 Result: 0.2738 Critical value: 0.6190 Outside Similar: No	Score: 104 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Ascospores				7
Penicillium/Aspergillus types					27
Smuts, Periconia, Myxomycetes					7
	Total				41

Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-17: S/N 10349892, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species Detected			Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-18: S/N 10349906, 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.4000		dF: 8 Result: 0.6012 Critical value: 0.6190 Outside Similar: No	Score: 104 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Basidiospores				27
Penicillium/Aspergillus types					27
	Total				54

Location: ST-19: S/N 10349897, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman ranl correlation*** (indoor/outdoor	(indoor/outdoor)
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2222		dF: 8 Result: 0.3869 Critical value: 0.619 Outside Similar: N	
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
Penici	illium/Aspergillus types				27
	Total				27

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Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-20: S/N 10349911. 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	F	Result: 0.2000	dF: 9 Result: 0.0917 Critical value: 0.5833 Outside Similar: No	Score: 100 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Ascospores				7
	Rusts				7
	Total				14

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

^{***} The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: ST-08: S/N 10349891, outside roof

Species detected	Outdoor sample spores/m3			Typical outdoor ranges		Freq.		
	<100	1K	10K	>100K		(Nor	th America)	%
Alternaria					13	7 -	27 - 320	56
Ascospores					113	13 -	160 - 3,600	77
Basidiospores					640	22 -	360 - 13,000	94
Cladosporium					233	53 -	590 - 8,100	96
Penicillium/Aspergillus types					27	34 -	210 - 2,800	90
Smuts, Periconia, Myxomycetes					ND	7 -	40 - 770	70
Total					1,026			

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: ST-02: S/N 10349890, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species 1	Species Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-03: S/N 10349904. 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No		Score: 101 Result: Low
Species	Detected			Spo	res/m3	
		<100	1K		10K	>100K
Basidiospores						7
	Total					7

Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-04: S/N 10349917, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
	Basidiospores			7
Penicillium/Aspergillus types				7
	Total			14

Location: ST-05: S/N 10349922. 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.0000 Critical value: 0.8000 Outside Similar: No		Score: 104 Result: Low
Species 1	Detected			Spor	es/m3	
		<100	1K		10K	>100K
Penici	llium/Aspergillus types					27
	Total					27

Location: ST-06: S/N 10351634, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2857		dF: 6 Result: -0.3143 Critical value: 0.7714 Outside Similar: No	
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
Penici	illium/Aspergillus types				
Smuts, P	Periconia, Myxomycetes				7
	Total				34

Date of Sampling: 11-16-2005

Client: Turner Building Science, LLC

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Date of Receipt: 11-18-2005 Re: 50588 Date of Report: 11-22-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-07: S/N 10349916, 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species	Detected		Spores/m3		
		<100 1K	10K	>100K	
	None Detected			N/A	

Location: ST-09: S/N 10349918, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE (indoor/outd	
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000		dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No		Score: 101 Result: Lov	
Species	Detected			Spo	res/m3		
		<100	1K		10K	>100K	
Smuts, P	ericonia, Myxomycetes						7
	Total						7

Location: ST-10: S/N10349925, 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Basidiospores				7
	Total				7

Date of Sampling: 11-16-2005

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-11: S/N 10349912, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species	Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-12: S/N 10349894, 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		correla	nan rank ntion*** /outdoor)	MoldSCORE**** (indoor/outdoor)					
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.3333		Result Critical va	F: 5 : 0.0000 alue: 0.8000 Similar: No	Score: 104 Result: Low					
Species	Detected			Spor	es/m3						
_		<100	1K		10K	>100K					
Penicillium/Aspergillus types							27				
	Total						27				

Location: ST-13: S/N 10349893, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		ement ratio** oor/outdoor)	Spearman ra correlation* (indoor/outde	***	MoldSCORE**** (indoor/outdoor)		
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	R	esult: 0.3333	dF: 5 Result: 0.750 Critical value: 0. Outside Similar	8000	Score: 102 Result: Low		
Species	Detected			Spores/m3	3			
		<100	1K	10	K	>100K		
	Basidiospores					27		
	Total					27		

Date of Sampling: 11-16-2005

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-14: S/N 10349915, 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement (indoor/ou		Spearman correlatio (indoor/ou	n***	MoldSCORI (indoor/out			
Result: 3%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2	2857	dF: 6 Result: 0.2 Critical value Outside Simi	2857 : 0.7714	Score: 103 Result: Low			
Species 1	Detected			Spores/	m3				
		<100	1K		10K	>100K			
	Basidiospores						27		
	Pithomyces						7		
	Total						34		

Location: ST-15: S/N 10349908, 18th flr E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)				
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low				
Species	Detected	Spores/m3						
		<100 1K	10K	>100K				
	None Detected			N/A				

Location: ST-16: S/N 10349889, 17th flr G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)					
Result: 3%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.3286 Critical value: 0.7714 Outside Similar: No	Score: 104 Result: Low					
Species	Detected	Spores/m3							
		<100 1 K	10K	>100K					
	Ascospores			7					
Penici	illium/Aspergillus types			27					
Smuts, Periconia, Myxomycetes				7					
	Total			41					

Date of Sampling: 11-16-2005

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-17: S/N 10349892, 16th flr C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)				
Result: < 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low				
Species	Detected	Spores/m3						
		<100 1K	10K	>100K				
	None Detected			N/A				

Location: ST-18: S/N 10349906. 12th flr B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor	(indoor/outdoor)
Result: 5%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Res	ult: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Basidiospores				27
Penicillium/Aspergillus types					27
	Total				54

Location: ST-19: S/N 10349897, 10th flr D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		nent ratio** or/outdoor)	Spearman ra correlation* (indoor/outde	***	MoldSCORE**** (indoor/outdoor)					
Result: 2%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Resi	ılt: 0.3333	dF: 5 Result: 0.000 Critical value: 0. Outside Similar	8000	Score: 104 Result: Low					
Species	Detected			Spores/m3	3						
_		<100	1K	10)K	>100K					
Penicillium/Aspergillus types						27					
	Total						27				

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Date of Sampling: 11-16-2005

Date of Receipt: 11-18-2005

Date of Report: 11-22-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: 50588

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-20: S/N 10349911. 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio* (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 17 Result: 6.7807 Critical value: 27.5871 Inside Similar: Yes	Result: 0.2857	dF: 6 Result: -0.1857 Critical value: 0.7714 Outside Similar: No	Score: 100 Result: Low
Species	Detected		Spores/m3	
		<100	K 10K	>100K
	Ascospores			7
	Rusts			7
	Total			14

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

- *** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.
- **** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

CHAIN OF CUSTODY

SAS - Surface Air Sampler

P - Pure Culture

O - Other:

ENVIRONMENTAL MICROBIOLOGY LABORATORY, INC.

866.888.6653 www.EMLab.com

* PLEASE SEE REVERSE SIDE FOR ADDITIONAL MicroLAB™ LOCATIONS * 1150 Bayhill Dr. #100, San Bruno, CA 94066 ~ AIHA EMLAP #102856

1	WEATHER	Fog	Rain	Snow	Wind	Clear
	None		V/70045	X		_
百	None Light Moderate Heavy	K	K			4
E	Moderate		R		K	TR
	Heavy				X	

REQUI

Spore

Non-Culturable Tape



1 OF 2

Swab Trap 5473 Kearny Villa Road, #130, San Diego, CA 92123 ~ AIHA EMLAP #160266 Wat Bulk CONTACT INFORMATION Premium (NIOSH 7400) Reg. add'l Address: ZG BINEWOOD LANE HARRISON, HE OYOUG subcultures "4 wk lead method 600/R-93-116) Fax results? Y/O Screen (24hr, 48hr, VAH rush avail.) & Biolog.cal Particles - Spore Trap Analysis swabs Count Email results (Y)/ N TURN AROUND TIME CODES - (TAT) PROJECT INFORMATION Airborne Fiber Project/ Projecti STD - Standard (DEFAULT 48-72 Hour) Promo ID: Rushes received after 2pm or on Speciation Project Sampling weekends, will be considered 06106 ND - 24 Hour (+50%) ium & Asp. Zip Code: received the next business day. PO Number Please alert us in advance of 5D · Same Business Day Rush (+75%) Latt 20 weekend analysis needs. Full Spe. os Analy la - Qua Send Invoice to: CNICORD NH 0330 WH - Weekend/Holiday (+100%) Total Sample TAT NOTES SAMPLE ID DESCRIPTION Volumes Area Type (Time of day, Temp, RH, etc.) (Above) 3 4 (as applicable) (Below) 51-01 SID ST 2:00 pm 501 ST-02 STD ST 1501 2:10 our ST STD 150 L 2175 55 STD 150 L STD 2:45 pm 55 150L SID 51-06 ST 3:00 pm 150 L STD 3:05 mm ST 500 1501 51-08 STD ST-00 50 L 300m STUID 150 L STD 3:25 5-11 4.1 In24 9917 1501 3:40 pm 5/210349894 150 L SAMPLE TYPE CODES RELINQUISHED BY DATE & TIME RECEIVED BY DATE & TIME 141765 1800 T - Tape BC - BioCassette" CP - Contact Plate D - Dusc ST - Spore Trap: SW - Swab W - Water A1S - Andersen 1-stage Zefon, Allergenco, Burkard ... A25 - Andersen Z-stage B - Buik 50 - Soil

7862407

CHAIN OF CUSTODY

ENVIRONMENTAL MICROBIOLOGY LABORATORY, INC.

866.888.6653 www.EMLab.com LAB

PLEASE SEE REVERSE SIDE FOR ADDITIONAL MicroLAB™ LOCATIONS *
 1150 Bayhill Dr. #100, San Bruno, CA 94066 ~ AIHA EMLAP #102856
 5473 Kearny Villa Road, #130, San Diego, CA 92123 ~ AIHA EMLAP #160266

1	WEATHER	Fog	Rain	Snow	Wind	Clear
	None			K		n
Œ	Light	K	K			8
LEV	Moderate		K		K	By
	Heavy				K	

REQUESTI Non-Culturable

BioCast

Water, 6

Tape

Swab

Bulk

Spore

Trap

000187040

		OF SERVICE OF								\Box		100	-						
		CONTAC	T INFORMA	TION											775	remius	0.00	_	
Company/Branch: Tolk		CIENCE A	ddress: Zlo	PINE	wood Can	E. HARRSON,	ME04040				0				sub	eq. ade beultur wk le	res	H 7400)	
Contacti Bu Tu	MER	F	ux results? Y	100	Fax				.00		Speciation)	12		(vluo				NIOSH	-116
Phone: (207) 583-		Er	mail resultsi	Ø N	Email: btorne	a hltorner	con		Trap Analysis				Near avail.	& swabs	in the County) juno	600/R-93-116)
PROJECT	INFORMATION			TURN /	AROUND TIME	CODES - (TAT)			Trap		d Asp.							Out	D9 P
Project: S0588	Project/ Pramo ID:	STD -	Standard (C	DEFAULT 48	3-72 Hour)	Rushes received af	ter 2pm or on		Spore	Exam	Analysis (Ind	20	'spac'	tative Analysis (water	sciation	no		Airbome Fil	method
Project Zip Code: 06106	Sampling Date: 11/16/	65 ND-	24 Hour (+5	0%)		weekends, will be received the next	e considered	Analysis	tides -	pic Ex	t. Anal	Arralysis	Thansare	Amaly	Asp. Spe	periation		w Airb	PLM (EPA
PO Number:	-		ame Busines	s Day Rush	1	Please alert us in		a Ama	al Particles	TOSCO	Quan	Sative	D IN	tative	9 % A	3.00	tion	8	PLA
Send Invoice to:	WES NH 033	of wh-	Weekend/He	oliday (+10	0%)	weekend analy	sis needs.	ne Tr	Biologia	Direct M	Standan	Quantil	Accepton	9 - Quar	Panicilli a	f Clad. 8.	Full Spec a	s Analys s	Analys
SAMPLE ID	DESCRIPTIO		Sample Type (Below)	TAT (Above)	Total Volume, Area (as applicable)	Clima of day 7	TFS [emp, RH, etc.)	Fun Spore	Fungo & Bio	Fur. Din		Barrer L-C			Far. of Pa		Fu. Fall	Ast sA	Ast s A
55-15 36	16549893 104	il D-2	ST	SID	150 L	3:45m							1						
ST-14 Sh	310349915 6th		ST	STA	150L	3:50 pm													
57-15 8h	3/0349908 18th	FR E-7	ST	STD	150L	3:55 pm													
ST-16 SA	16349889 17th	FIR G-6	ST	STD	1506	14:00 pm													
	768845010 PBB 1245	FACS	ST	STD	150L	4:05pm													
	U10349906 1245	FIR B-4	ST	STD	150 -	4:10 pm		_	Ĺ										
	J 1654 9897 10th	62 D-2	ST	STD	150L	4:15 pm													
5-20 4	5 10349911 646	RR E-4	ST	STD	150 L	4:20 por		-			-	_	+	+-		-			
			1																
				1		1		-					-		1				
	SAMPLE TYPE CODE	S	1		RELINQUIS	SHED BY	DATE & TIME			F	RECEI	VED I	3Y		1		DAT	E & T	TME
BC - BioCassette	CP - Contact Plate	T - Tape	D - Dust	Af	= 2.12	90.000 I	1/17/65 1800		1	0			yı .				1	00	
A15 - Andersen 1-stage	ST - Spore Trap: Zefon, Allergenco,	SW - Swab	W - Water	1		0	of a diameter and		1	Ne	in	1			715.51	11	11	8	05
A25 - Andersen 2-stage	Burkard.	B - Bulk S	O - Soil					-	/		0						q:	509	SIV
SAS - Surface Air Sampler	P - Pure Culture	Q - Other										2000							



1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Turner Building Science, LLC C/O: Mr. William Turner

Re: SO588

Date of Sampling: 11-16-2005 Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-21:)349921, flr., E-7	S/N 10	Г-22:)349907, flr., G-6	S/N 10	T-23: 0349901, flr., C-5	S/N 10	Γ-24:)349899, flr., B-4
Comments (see below)		lin., L-7		lone		lone		lin., b-4 Jone
Lab ID-Version‡:		528-1		529-1		530-1	814531-1	
Lab ID- Version ₄ .								
A1.	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium			4	27			0	50
Ascospores*			4	27			8	53
Aureobasidium			4					
Basidiospores*			4	27	4	27		
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium					8	53		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	4	27	16	107	16	107	8	53
Pithomyces	1	7						
Rusts*								
Smuts*, Periconia, Myxomycetes*	1	7						
Stachybotrys		-						
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		1+		1+		1+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		41		161		187		106

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

[‡] A "Version" greater than 1 indicates amended data.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-25:)349895,	S/N 10	Γ-26:)349905,	S/N 10	Γ-27: 3516271,	S/N 10	Γ-28: 3516281,
				flr., E-7		flr., G-6		
Comments (see below)	N	Vone	N	lone	N	Vone	N	lone
Lab ID-Version‡:	814	1532-1	814	533-1	814	1540-1	814541-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*			4	27				
Aureobasidium								
Basidiospores*	1	7	12	80				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium							8	53
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown					2	13	3	20
Other colorless								
Penicillium/Aspergillus types†	1	7	4	27	4	27	4	27
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					1	7	2	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		1+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		14		134		47		113

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi.

Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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[‡] A "Version" greater than 1 indicates amended data.

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Date of Sampling: 11-18-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-29: 3516261, flr., C-5	S/N 10	Γ-30: 3516471, flr., B-4	S/N103	Γ-31: 3516501, flr., D-2	S/N 10	Γ-32: 3516611, Ίr., E-4
Comments (see below)		Vone		lir., B-4 Jone		None		Ir., E-4 Ione
` ′		814542-1 814543-1						
Lab ID-Version‡:	814	1542-1	814	1543-1	814	1544-1	814545-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*							4	27
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium								
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†			4	27			12	80
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*							2	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		1+		1+		1+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		< 7		27		< 7		120

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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[‡] A "Version" greater than 1 indicates amended data.

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Date of Sampling: 11-18-2005

Client: Turner Building Science, LLC C/O: Mr. William Turner

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Γ-33: 0105295,	S/N 10	Γ-34: 0105335,	S/N 10	Γ-35: 0105325,	S/N 10	Γ-36: 0105341,
Comments (see below)		, roof Jone		flr., E-7 Ione		flr., G-6 Ione		flr., C-5 Jone
` ′								
Lab ID-Version‡:	814	1546-1	814	547-1	814	548-1	814549-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	4	27						
Aureobasidium								
Basidiospores*	32	213	1	7				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium	12	80	2	13				
Curvularia								
Epicoccum			1	7				
Fusarium								
Myrothecium								
Nigrospora								
Other brown	2	13					1	7
Other colorless								
Penicillium/Aspergillus types†	20	133	16	107	8	53	16	107
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*					1	7	2	13
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	1+		2+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		466		134		60		127

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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[‡] A "Version" greater than 1 indicates amended data.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Turner Building Science, LLC

C/O: Mr. William Turner Re: SO588

Date of Sampling: 11-18-2005 Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	T-37: 0105361,	S/N 10	Γ-38: 0105340,	S/N 980	Γ-39: 03587, 6th	S/N 10	Γ-40: 3516371,
		flr., B-4		flr., D-2		., E-4		flr., E-7
Comments (see below)	N	Ione	N	Ione	N	Vone	N	lone
Lab ID-Version‡:	814	550-1	814	551-1	814	814552-1		553-1
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*					4	27		
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			4	27				
Curvularia	1	7						
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	4	27	8	53	12	80	12	80
Pithomyces								
Rusts*					1	7		
Smuts*, Periconia, Myxomycetes*	1	7						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		2+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		41		80		114		80

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

[‡] A "Version" greater than 1 indicates amended data.

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 11-18-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	S/N 10	Г-41: 3516381, flr., G-6	S/N 10	Γ-42: 3516631, flr., C-5	S/N 10	Γ-43: 3516331, flr., B-4	S/N 10	Γ-44: 3516241, flr., D-2
Comments (see below)		Vone		III., C-3 Jone		Vone		Vone
Lab ID-Version‡:		1554-1		555-1				557-1
Lab ID-version;						814556-1		
	raw ct.	spores/m3						
Alternaria								
Arthrinium								
Ascospores*								
Aureobasidium								
Basidiospores*			10	67				
Bipolaris/Drechslera group								
Botrytis								
Chaetomium								
Cladosporium			20	133	4	27		
Curvularia								
Epicoccum								
Fusarium								
Myrothecium								
Nigrospora								
Other brown								
Other colorless								
Penicillium/Aspergillus types†	4	27	20	133	12	80	4	27
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*								
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Unknown								
Zygomycetes								
Background debris (1-4+)††	2+		4+		2+		2+	
Sample volume (liters)	150		150		150		150	
TOTAL SPORES/M3		27		333		107		27

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

[‡] A "Version" greater than 1 indicates amended data.

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Date of Sampling: 11-18-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		T-45: 55416th flr., E-4		Γ-46: 5431, OA, roof
Comments (see below)	None		ı	Vone
Lab ID-Version‡:	814558-1		814	4559-1
	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria				
Arthrinium				
Ascospores*			4	27
Aureobasidium				
Basidiospores*			12	80
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			8	53
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown	1	7	1	7
Other colorless				
Penicillium/Aspergillus types†			8	53
Pithomyces				
Rusts*				
Smuts*, Periconia, Myxomycetes*				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Unknown				
Zygomycetes				
Background debris (1-4+)††	2+		2+	
Sample volume (liters)	150		150	
TOTAL SPORES/M3		7		220

^{*} Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††} Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be actually higher than reported. Background debris also affects the reporting limit for some spore types. The reporting limit is dependent on spore size, background debris, sample volume, and the percentage of the trace analyzed. It is important to account for sample volumes when evaluating dust levels. The minimum reporting limit is based on a raw count of one, which the lowest count that can be detected.

[‡] A "Version" greater than 1 indicates amended data.

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Date of Sampling: 11-18-2005

Date of Receipt: 11-21-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: SO588 Date of Report: 11-23-2005

MoldRANGETM: Extended Outdoor Comparison Outdoor Location: ST-33, S/N 10105295, OA, roof

Fungi Identified	Outdoor	Typic	Typical Outdoor Data by Date†			Typical	Outdoor	Data by L	ocation‡
	data		Month: November			State: CT			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	280	54	12	27	230	38
Bipolaris/Drechslera group	-	7	13	200	18	-	-	-	13
Chaetomium	-	7	13	160	11	-	-	-	3
Cladosporium	80	53	750	12,000	97	16	590	13,000	87
Curvularia	-	7	27	940	18	13	27	3,800	21
Nigrospora	-	7	13	210	17	-	-	-	15
Other brown	13	7	13	130	38	13	13	41	34
Penicillium/Aspergillus types	133	40	300	3,800	93	20	210	5,500	90
Stachybotrys	-	7	13	370	3	-	-	-	< 1
Torula	-	7	13	120	8	-	-	-	7
Seldom found growing indoors**									
Ascospores	27	13	160	2,400	76	31	640	4,900	79
Basidiospores	213	27	570	17,000	96	13	2,100	29,000	92
Rusts	-	7	13	250	22	13	27	230	21
Smuts, Periconia, Myxomycetes	-	7	40	680	71	13	53	1,100	61
TOTAL SPORES/M3	466								

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Environmental Microbiology Laboratory, Inc. may not have received and tested a representative number of samples for every region or time period. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

^{*}The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**}These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Date of Sampling: 11-18-2005

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldRANGETM: Extended Outdoor Comparison Outdoor Location: ST-46, S/N 103516431, OA, roof

Fungi Identified	Outdoor	Typic	al Outdoo	or Data by	Date†	Typical	Outdoor	Data by L	ocation‡
	data		Month: November			State: CT			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	27	280	54	12	27	230	38
Bipolaris/Drechslera group	-	7	13	200	18	-	-	-	13
Chaetomium	-	7	13	160	11	-	-	-	3
Cladosporium	53	53	750	12,000	97	16	590	13,000	87
Curvularia	-	7	27	940	18	13	27	3,800	21
Nigrospora	-	7	13	210	17	-	-	-	15
Other brown	7	7	13	130	38	13	13	41	34
Penicillium/Aspergillus types	53	40	300	3,800	93	20	210	5,500	90
Stachybotrys	-	7	13	370	3	-	-	-	< 1
Torula	-	7	13	120	8	-	-	-	7
Seldom found growing indoors**									
Ascospores	27	13	160	2,400	76	31	640	4,900	79
Basidiospores	80	27	570	17,000	96	13	2,100	29,000	92
Rusts	-	7	13	250	22	13	27	230	21
Smuts, Periconia, Myxomycetes	-	7	40	680	71	13	53	1,100	61
TOTAL SPORES/M3	220								

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, Environmental Microbiology Laboratory, Inc. may not have received and tested a representative number of samples for every region or time period. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

^{*}The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**}These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: ST-33: S/N 10105295, OA, roof

Species detected		Outdoor sample spores/m3					Typical outdoor ranges		
	<100	1K	10K	>100K		(Nor	th Ame	erica)	%
Ascospores					27	13 -	160	- 3,600	77
Basidiospores					213	22 -	360	- 13,000	94
Cladosporium					80	53 -	590	- 8,100	96
Other brown					13	7 -	13	- 93	39
Penicillium/Aspergillus types					133	34 -	210	- 2,800	90
Smuts, Periconia, Myxomycetes					ND	7 -	40	- 770	70
Total					466				

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: ST-21: S/N 10349921, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: -0.1071 Critical value: 0.6786 Outside Similar: No	Score: 104 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
Penici	llium/Aspergillus types			27
	Pithomyces			7
Smuts, P	ericonia, Myxomycetes			7
	Total			41

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-22: S/N 10349907, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 34%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6000 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10 K	>100K
	Ascospores			27
	Basidiospores			27
Penici	llium/Aspergillus types			107
	Total			161

Location: ST-23: S/N 10349901, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 40%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500		dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 115 Result: Low	
Species 1	Detected			Spores/m3		
		<100	1K	10K	>100K	
	Basidiospores				27	
Cladosporium					53	
Penicillium/Aspergillus types					107	
	Total				187	

Location: ST-24: S/N 10349899, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 22%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.1250 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species 1	Detected	.100	Spores/m3	. 10017	
Ascospores Penicillium/Aspergillus types Total			10K	>100K 	

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-25: S/N 10349895, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 3%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.8750 Critical value: 0.8000 Outside Similar: Yes	Score: 101 Result: Low	
Species 1	Detected		Spores/m3		
			10K	>100K	
Basidiospores				7	
Penicillium/Aspergillus types				7	
	Total			14	

Location: ST-26: S/N 10349905, 6th flr., E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 28%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500		dF: 5 Result: 0.7500 Critical value: 0.8000 Outside Similar: No	Score: 107 Result: Low	
Species 1	Detected	Spores/m3				
		<100	1K	10K	>100K	
	Ascospores				27	
Basidiospores					80	
Penicillium/Aspergillus types					27	
	Total				134	

Location: ST-27: S/N 103516271, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 10%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000		dF: 6 Result: -0.1429 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low	
Species 1	Species Detected			Spores/m3		
			1K	10K	>100K	
	Other brown				13	
Penicillium/Aspergillus types					27	
Smuts, Periconia, Myxomycetes					7	
	Total				47	

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Date of Sampling: 11-16-2005 and 11-18-2005

Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-28: S/N 103516281, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		ent ratio** /outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 24%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.0143 Critical value: 0.7714 Outside Similar: No	Score: 110 Result: Low		
Species 1	Species Detected		Spores/m3				
		<100	1K	10K	>100K		
	Cladosporium				53		
	Other brown				20		
Penicillium/Aspergillus types					27		
Smuts, Periconia, Myxomycetes					13		
	Total				113		

Location: ST-29: S/N 103516261, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: < 1%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low	
Species 1	Species Detected		Spores/m3		
		<100 1K	10K	>100K	
	None Detected			N/A	

Location: ST-30: S/N 103516471, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)	
Result: 5%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No		Score: 104 Result: Low	
Species	Species Detected			Spor	res/m3		
		<100	1K		10K	>100	K
Penicillium/Aspergillus types							27
	Total						27

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-31: S/N103516501, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species	Detected	Spores/m3		
		<100 1K	>100K	
	None Detected			N/A

Location: ST-32: S/N 103516611 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 25%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5429 Critical value: 0.7714 Outside Similar: No	Score: 111 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10K	>100K	
	Basidiospores			27	
Penicillium/Aspergillus types				80	
Smuts, Periconia, Myxomycetes				13	
	Total			120	

Location: ST-34: S/N 10105335, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 28%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.5143 Critical value: 0.7714 Outside Similar: No	Score: 116 Result: Low	
Species 1	Detected	Spores/m3				
		<100	1K	10 K	>100K	
	Basidiospores				7	
	Cladosporium				13	
Epicoccum					7	
Penicillium/Aspergillus types					107	
	Total				134	

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-35: S/N 10105325, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORI (indoor/out	
Result: 12%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2857		dF: 6 Result: 0.0857 Critical value: 0.7714 Outside Similar: No		Score: 10 Result: Lo	-
Species 1	Detected			Spores	/m3		
		<100	1K		10K	>100K	
Penici	illium/Aspergillus types						53
Smuts, P	Periconia, Myxomycetes						7
	Total						60

Location: ST-36: S/N 10105341, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 27%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.2000 Critical value: 0.7714 Outside Similar: No	Score: 116 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10K	>100K	
	Other brown			7	
Penicillium/Aspergillus types				107	
Smuts, Periconia, Myxomycetes				13	
	Total			127	

Location: ST-37: S/N 10105361, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 8%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2500		dF: 7 Result: -0.1071 Critical value: 0.6786 Outside Similar: No	Score: 104 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Curvularia				7
Penicillium/Aspergillus types					27
Smuts, Periconia, Myxomycetes					7
	Total				41

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-38: S/N 10105340, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 17%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
Cladosporium				27
Penicillium/Aspergillus types				53
	Total			80

Location: ST-39: S/N 9803587, 6th flr., E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 24%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.5429 Critical value: 0.7714 Outside Similar: No	Score: 111 Result: Low		
Species 1	Detected	Spores/m3				
		<100 1K	10K	>100K		
	Basidiospores			27		
Penicillium/Aspergillus types				80		
Rusts				7		
	Total			114		

Location: ST-40: S/N 103516371. 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)
Result: 17%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	R	esult: 0.3333	dF: 5 Result: 0.5000 Critical value: 0.8 Outside Similar:	3000	Score: 112 Result: Low
Species	Detected			Spores/m3	}	
		<100	1K	10	K	>100K
Penici	llium/Aspergillus types					80
	Total					80

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-41: S/N 103516381, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE* (indoor/outdoo	
Result: 5%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No		Score: 104 Result: Low	
Species	Detected			Spor	es/m3		
		<100	1K		10K	>100K	
Penici	llium/Aspergillus types						27
	Total						27

Location: ST-42: S/N 103516631, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 71%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 118 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10K	>100K	
	Basidiospores			67	
Cladosporium				133	
Penicillium/Aspergillus types				133	
	Total			333	

Location: ST-43: S/N 103516331, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 22%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714		dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No	Score: 112 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Cladosporium				27
Penici	llium/Aspergillus types				80
	Total				107

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Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Re: SO588

Date of Receipt: 11-21-2005

Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-44: S/N 103516241, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 5%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.5000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
Penicillium/Aspergillus types					27
	Total				27

Location: ST-45: S/N 1035165416th flr., E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	(indoor/outdoor)
Result: 1%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: -0.2500 Critical value: 0.8000 Outside Similar: No	·
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Other brown				7
	Total				7

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

^{***} The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

**** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

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MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: ST-46: S/N 103516431, OA, roof

Species detected	Outdoor sample spores/m3			Typical outdoor ranges		Freq.		
	<100	1K	10K	>100K		(Nor	th America)	%
Ascospores					27	13 -	160 - 3,600	77
Basidiospores					80	22 -	360 - 13,000	94
Cladosporium					53	53 -	590 - 8,100	96
Other brown					7	7 -	13 - 93	39
Penicillium/Aspergillus types					53	34 -	210 - 2,800	90
Smuts, Periconia, Myxomycetes					ND	7 -	40 - 770	70
Total					220			

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: ST-21: S/N 10349921, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 18%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: -0.1786 Critical value: 0.6786 Outside Similar: No	Score: 104 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
Penici	llium/Aspergillus types			27
	Pithomyces			7
Smuts, Periconia, Myxomycetes				7
	Total			41

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-22: S/N 10349907, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 73%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.4500 Critical value: 0.8000 Outside Similar: No	Score: 116 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10 K	>100K	
	Ascospores			27	
Basidiospores				27	
Penicillium/Aspergillus types				107	
	Total			161	

Location: ST-23: S/N 10349901, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 85%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500		dF: 5 Result: 0.6500 Critical value: 0.8000 Outside Similar: No	Score: 116 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Basidiospores				27
Cladosporium					53
Penicillium/Aspergillus types					107
	Total				187

Location: ST-24: S/N 10349899 12th flr R-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 48%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714		dF: 5 Result: 0.0250 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
Ascospores					53
Penicillium/Aspergillus types					53
	Total				106

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-25: S/N 10349895, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.7750 Critical value: 0.8000 Outside Similar: No	Score: 101 Result: Low
Species 1	Detected		Spores/m3	
			10K	>100K
Basidiospores				7
Penicillium/Aspergillus types				7
	Total			14

Location: ST-26: S/N 10349905, 6th flr., E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 60%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500		dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low	
Species 1	Detected			Spores/m3		
		<100	1K	10K	>100K	
	Ascospores				2	7
Basidiospores					80	0
Penicillium/Aspergillus types					2	7
	Total				13	34

Location: ST-27: S/N 103516271, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 21%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000		dF: 6 Result: -0.2429 Critical value: 0.7714 Outside Similar: No	Score: 107 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Other brown				13
Penicillium/Aspergillus types					27
Smuts, Periconia, Myxomycetes					7
	Total				47

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Client: Turner Building Science, LLC

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Re: SO588

Date of Sampling: 11-16-2005 and 11-18-2005

Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-28: S/N 103516281, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 51%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.0571 Critical value: 0.7714 Outside Similar: No	Score: 110 Result: Low	
Species 1	Detected	Spores/m3				
		<100	1K	10K	>100K	
	Cladosporium				53	
	Other brown				20	
Penicillium/Aspergillus types					27	
Smuts, Periconia, Myxomycetes					13	
	Total				113	

Location: ST-29: S/N 103516261, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low
Species 1	Species Detected		Spores/m3	
		<100 1K	10K	>100K
	None Detected			N/A

Location: ST-30: S/N 103516471, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No	Score: 104 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
Penicillium/Aspergillus types					27
	Total				27

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-31: S/N103516501, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: < 1%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low		
Species	Species Detected		Spores/m3			
		<100 1K	10K	>100K		
None Detected				N/A		

Location: ST-32: S/N 103516611 6th flr E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 54%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.4429 Critical value: 0.7714 Outside Similar: No	Score: 112 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10K	>100K	
	Basidiospores			27	
Penicillium/Aspergillus types				80	
Smuts, Periconia, Myxomycetes				13	
	Total			120	

Location: ST-34: S/N 10105335, 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 60%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.5000 Critical value: 0.7714 Outside Similar: No	Score: 116 Result: Low	
Species 1	Detected	Spores/m3				
		<100	1K	10 K	>100K	
	Basidiospores				7	
	Cladosporium				13	
Epicoccum					7	
Penicillium/Aspergillus types					107	
	Total				134	

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-35: S/N 10105325, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORI (indoor/out	
Result: 27%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2857		dF: 6 Result: 0.0000 Critical value: 0.7714 Outside Similar: No		Score: 10 Result: Lo	-
Species 1	Detected			Spore	s/m3		
		<100	1K		10K	>100K	
Penicillium/Aspergillus types							53
Smuts, P	Periconia, Myxomycetes						7
	Total						60

Location: ST-36: S/N 10105341, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 57%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: -0.3000 Critical value: 0.7714 Outside Similar: No	Score: 117 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
	Other brown			7
Penicillium/Aspergillus types				107
Smuts, Periconia, Myxomycetes				13
	Total			127

Location: ST-37: S/N 10105361, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 18%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.2500		dF: 7 Result: -0.1786 Critical value: 0.6786 Outside Similar: No	Score: 104 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
	Curvularia				7
Penicillium/Aspergillus types					27
Smuts, Periconia, Myxomycetes					7
	Total				41

Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

C/O: Mr. William Turner Re: SO588

Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-38: S/N 10105340, 10th flr., D-2

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 36%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 108 Result: Low
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
Cladosporium				27
Penicillium/Aspergillus types				53
	Total			80

Location: ST-39: S/N 9803587, 6th flr. E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 51%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5000	dF: 6 Result: 0.4429 Critical value: 0.7714 Outside Similar: No	Score: 112 Result: Low		
Species 1	Detected	Spores/m3				
		<100 1K	10K	>100K		
	Basidiospores					
Penicillium/Aspergillus types				80		
Rusts				7		
	Total			114		

Location: ST-40: S/N 103516371. 18th flr., E-7

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 36%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No	Score: 112 Result: Low
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
Penicillium/Aspergillus types					80
	Total				80

Client: Turner Building Science, LLC

C/O: Mr. William Turner

Re: SO588

Date of Sampling: 11-16-2005 and 11-18-2005

Date of Receipt: 11-21-2005 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-41: S/N 103516381, 17th flr., G-6

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE* (indoor/outdo	
Result: 12%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.3333		dF: 5 Result: 0.4000 Critical value: 0.8000 Outside Similar: No		Score: 104 Result: Low	
Species	Detected			Spore	es/m3		
		<100	1K		10K	>100K	
Penici	llium/Aspergillus types						27
	Total						27

Location: ST-42: S/N 103516631, 16th flr., C-5

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 151%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 120 Result: Low	
Species 1	Detected		Spores/m3		
		<100 1K	10K	>100K	
	Basidiospores			67	
Cladosporium				133	
Penicillium/Aspergillus types				133	
	Total			333	

Location: ST-43: S/N 103516331, 12th flr., B-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio* (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)
Result: 48%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Result: 0.5714	dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 112 Result: Low
Species 1	Detected		Spores/m3	
		<100 11	X 10K	>100K
	Cladosporium			27
Penici	llium/Aspergillus types			80
	Total			107

1150 Bayhill Drive, Suite 100, San Bruno, CA 94066 (650) 829-5800 Fax (650) 829-5852 www.emlab.com

Date of Sampling: 11-16-2005 and 11-18-2005 Client: Turner Building Science, LLC

C/O: Mr. William Turner

Date of Receipt: 11-21-2005 Re: SO588 Date of Report: 11-23-2005

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: ST-44: S/N 103516241, 10th flr., D-2

% of outdoor total spores/m3	spores/m3 chi-square* (indoor variation)			correla	nan rank ation*** /outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	Re	sult: 0.3333	Result Critical va	F: 5 :: 0.4000 alue: 0.8000 Similar: No	Score: 104 Result: Low
Species 1	Species Detected			Spor	es/m3	
	<100	1K		10K	>100K	
Penici					27	
	Tota					27

Location: ST-45: S/N 1035165416th flr., E-4

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)		eement ratio** loor/outdoor)	Spearman ranl correlation*** (indoor/outdoor	(indoor/outdoor)
Result: 3%	dF: 23 Result: 12.3880 Critical value: 35.1725 Inside Similar: Yes	R	Result: 0.3333	dF: 5 Result: -0.2250 Critical value: 0.800 Outside Similar: N	
Species	Detected			Spores/m3	
		<100	1K	10K	>100K
				7	
	Total				7

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

^{***} The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Client: Turner Building Science, LLC Date of Sampling: 11-16-2005 and 11-18-2005

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**** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab reserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Environmental Microbiology Laboratory, Inc. and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Environmental Microbiology Laboratory, Inc. hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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1150 Bayhill Dr. #100, San Bruno, CA 94066 AIHA EMLAP #102856 5473 Kearny Villa Road, #130, San Diego, CA 92123 AIHA EMLAP #160266

1	VEATHER	Fog	Rain	Snow	Wind	Clear
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恒	Light		K			A.
LEVEI	Moderate		K		K	D
	Heavy				K	,

REQUESTED

Non-Culturable

Spore

Tape

Swab



BioCassette Analysissis, John, Jowas, J. Requests

5475 Rearry Villa Road, #150, 58	in blego, CA 92123	ATTA CVIDAF #	100200		~	I IIAP	Bulk	vvater	r, Bulk, Dust, Sc	əii, Cont	tact Pit.		
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S - Surface Air Sampler P - Pure Culture O - Other;			 										



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1150 Bayhill Dr. #100, San Bruno, CA 94066 ~ AIHA EMLAP #102856

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		Heavy					

000187468 Non-Culturable

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A2S - Andersen 2-stage	Burkard	B - Bulk	SO - So	oil										ALCOHOL: 150	1	·		
SAS - Surface Air Sampler	P - Pure Culture	O - Other:																

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١	WEATHER	Fog	Rain	Snow	Wind	Clear
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Non-Culturable

Spore Tape

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The Road	, #150, San Diego, C	A 92123	AIHA EMLAI	P #160266	Heav	vy		Trap	Swat Bulk	Wai	ter, Bulk	, Dust, S	oil, Con	itaci Plt.	"	equests
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BC - BioCassette [™] A15 - Andersen 1-stage A25 - Andersen 2-stage 5A5 - Surface Air Samp er	SAMPLE TYPE CODE CP - Contact Plate ST - Spore Trap: Zefon, Allergenco, Burkard P - Pure Culture	T - Tape SW - Swab B - Bulk O - Other	SO - Soil	F	RELINQUIS	HED BY	DATE & TIME	Ann		ECEIVE		<u>y</u>		DAT	E& TIN	>5

O - Other:

P - Pure Culture

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BC - BioCassette [™]	CF - Contact rate	- Tape D - Dust		M./W.		and the second s	An		Mo	cris	sey		11-2) <u>r</u> -30
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